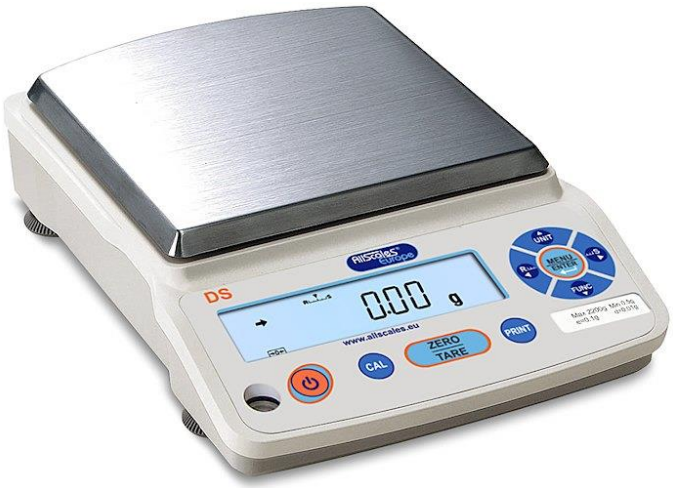
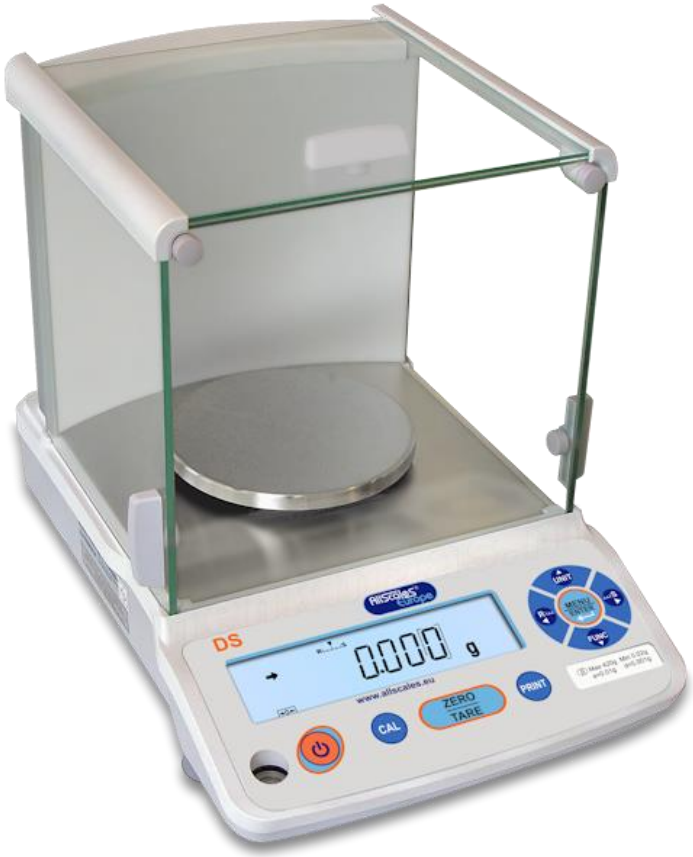
Precision balances series DS

A new generation of precision balances with simple operation, usable at any place where a balance is needed, performing very fast and reliable weighings, even under adverse conditions.





Specifications

- clearly readable, backlit LCD-display
- solid construction, housing partial from aluminium (bottom side) and partial from ABS plastic; stainless steel pan
- supplied with 4 adjustable feet and level
- verified models are supplied with Ultrablok weigh sensor, providing a very fast response, large stability and reliability!
- models with "C" denotation are supplied with automatic, internal calibration (lasting only 15 sec.) and glass wind shield
- waterprotected keypad with highly user friendly operation
- taring, zeroing, piece counting with 5 reference weight memories, check weighing
- an optional cable enables communication with a PC, weigh data can be transmitted to Excel or another Windows application (Windows 8 / 10)
- very fast weighing sessions, user can simply set required stability/speed during weigh session
- supplied with RS-232 interface
- an optional printer enables simple printing of calibration reports (GLP, GMP)
- supplied with Kensington Security Lock
- power: 12V, 1A adapter incl. / models "not for legal trade" can use also 6 AA batteries (excl.)

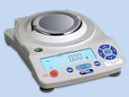
Options i.a.

- dot-matrix ticket printer (2 models available);
- cable from RS-232 to PC/printer;
- static elektricity ionisator STERION;
- dust cover (available only for models DS-620 and DS-6200)

M CE- verfied, class II (application for legal trade, except for models DS-620 / DS-6200)

Precision balances series DS

Technical data

type	DS-220-C-M	DS-420-C-M	DS-620	DS-2200-M	DS-4200-M	DS-6200
capacity	220 g	420 g	620 g	2200 g	4200 g	6200 g
						
division e (verified unit)	0.01 g	0.01 g	-	0.1 g	0.1 g	-
division d (reading)	0.001 g	0.001 g	0.01 g	0.01 g	0.01 g	0.1 g
repeatability	0.001 g	0.001 g	0.01 g	0.01 g	0.01 g	0.1 g
linearity	± 0.002 g	± 0.002 g	± 0.02 g	± 0.02 g	± 0.02 g	± 0.2 g
version	M II	M II	nflt*	M II	M II	nflt *
calibration	automatic internal calibration		external calibration			
pan dim.	Ø 110 mm			167 x 181 mm (b x d)		Ø 160 mm
own weight	4.2 kg	4.2 kg	1.5 kg	2.8 kg	2.8 kg	1.5 kg

* nflt = not for legal trade; calibration certificate included

Ultrablok weigh sensor

The verified versions are supplied standard with Ultrablok, a durable and light but sturdy one piece aluminum alloy mass weighing sensor.
The compact, uniform structure replaces 70 parts found in a conventional electromagnetic balance sensor assembly and ensures stable temperature characteristics, excellent response time and stable corner-load performance.
The Ultrablok design permits a consistency of production that assures reliability and a long operational life.

M CE- verfied, class II (application for legal trade, except for models DS-620 / DS-6200)

STERION Static electricity ionisator (option)
Samples or containers that easily become electro-statically charged can cause instability in balance measurement values due to static electricity. The STERION static electricity ionisator uses an AC corona discharge to generate ions with good ion balance; these ions are emitted from the emission port to quickly reduce the static charge on samples and containers. The electrodes, which are subject to high voltages, are located safely inside the unit, out of the operator's reach. The STERION is especially useful for improving measurement stability when measuring extra-small samples (particularly for measurements using an analytical balance) or samples that easily become electro-statically charged.

See the separate leaflet of the STERION static electricity ionisator.

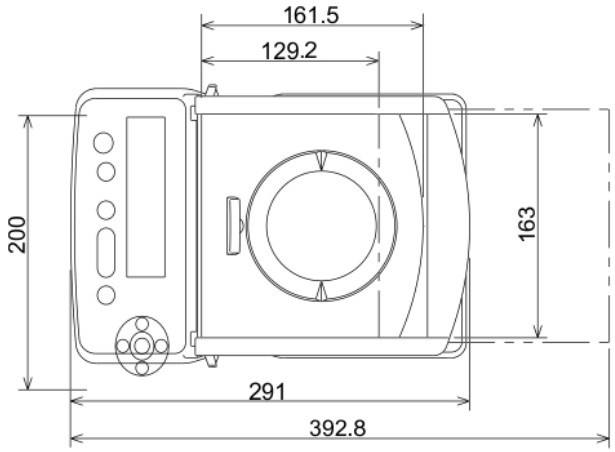
Piece counting, one of the many functions of the DS-serie.
With this function articles of the same type can be counted quickly and accurately.

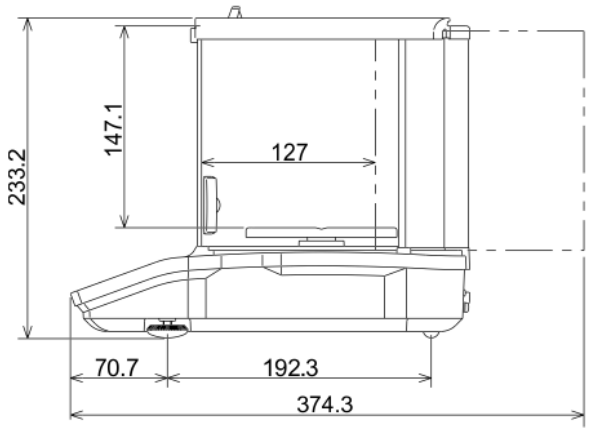
The "not for legal trade" models are also equipped with battery powering (excluded batteries). A 230Vac adaptor is also included.

The DS-serie is connectable to a PC or laptop; the weighing data can be directly imported into Excel or Word (Windows XP / Vista / 7).

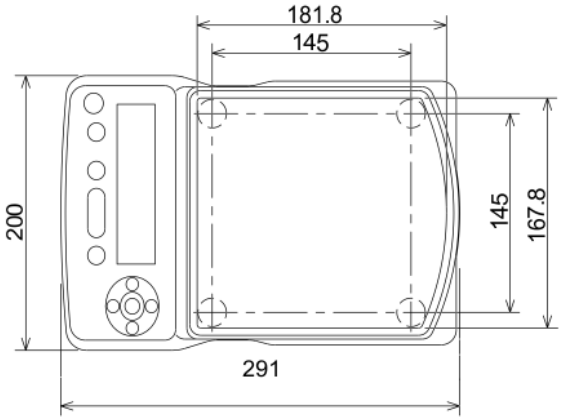
Measurement sketches

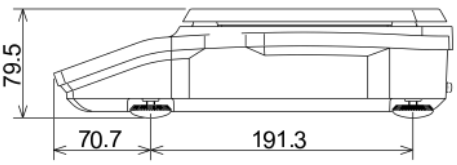
DS-220-C-M / DS-420-C-M



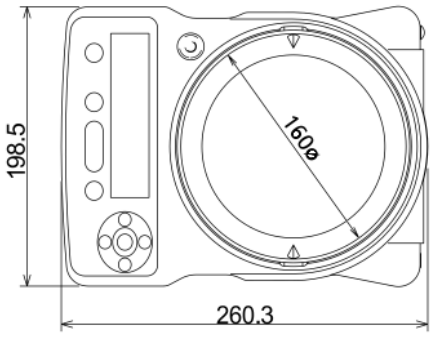


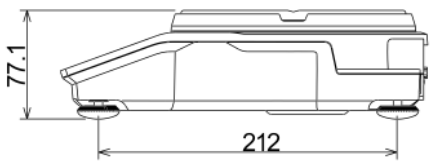
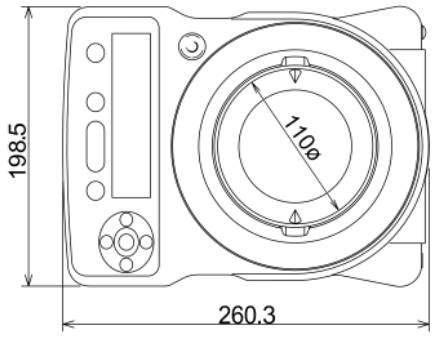
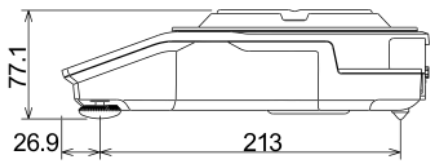
DS-2200-M / DS-4200-M





DS-6200





DS-620